

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 29 OCT 1941

Date of writing Report 14<sup>th</sup> Oct 1941 When handed in at Local Office 27. 10. 1941 Port of Glasgow

No. in Survey held at Paisley Date, First Survey 25. 10. 40 Last Survey 6. 10. 1941  
 Reg. Book. on the R.A. (Number of Visits 37)

Built at Thorne By whom built R. Dunsmuir Ltd Yard No. 360 Tons <sup>Gross</sup>          <sub>Net</sub>          When built         

Engines made at Paisley By whom made Mckie & Baxter Ltd Engine No. 1329 When made 1941-10<sup>th</sup> and

Boilers made at          By whom made          Boiler No.          When made         

Registered Horse Power          Owners          Port belonging to         

Nom. Horse Power as per Rule 85 Is Refrigerating Machinery fitted for cargo purposes          Is Electric Light fitted         

Trade for which Vessel is intended         

**ENGINES, &c.**—Description of Engines Triple Expansion Revs. per minute 140

Dia. of Cylinders 12" 20" 32" Length of Stroke 22" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 6.44 Crank pin dia. 6 1/2" Crank webs Mid. length breadth          Thickness parallel to axis 4 1/2"  
as fitted 6 1/2" Mid. length thickness          shrunk Thickness around eye-hole 2 1/2" horn 2 1/8" pin

Intermediate Shafts, diameter as per Rule 6.13 Thrust shaft, diameter at collars as per Rule 6.44  
as fitted 6 1/4" as fitted 6 1/2"

Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 7.12 Is the tube shaft fitted with a continuous liner           
as fitted as fitted 7 1/8" screw          No

Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule Is the after end of the liner made watertight in the  
as fitted as fitted propeller boss          If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner         

If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive         

If two liners are fitted, is the shaft lapped or protected between the liners          Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft         

Propeller, dia. 8' 3" Pitch 10' 0" No. of Blades 4 Material Cast Iron whether Movable          Total Developed Surface 24 sq. feet

Feed Pumps worked from the Main Engines, No. one Diameter 2 1/2" Stroke 12" Can one be overhauled while the other is at work         

Bilge Pumps worked from the Main Engines, No. one Diameter 2 1/2" Stroke 12" Can one be overhauled while the other is at work         

Feed Pumps { No. and size          Pumps connected to the { No. and size           
 { How driven          Main Bilge Line { How driven         

Ballast Pumps, No. and size          Lubricating Oil Pumps, including Spare Pump, No. and size         

Are two independent means arranged for circulating water through the Oil Cooler          Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room         

In Pump Room          In Holds, &c.         

**Main Water Circulating Pump Direct Bilge Suctions, No. and size**          **Independent Power Pump Direct Suctions to the Engine Room Bilges,**  
                  Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes         

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges         

Are all Sea Connections fitted direct on the skin of the ship          Are they fitted with Valves or Cocks         

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates          Are the Overboard Discharges above or below the deep water line         

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel          Are the Blow Off Cocks fitted with a spigot and brass covering plate         

What Pipes pass through the bunkers          How are they protected         

What pipes pass through the deep tanks          Have they been tested as per Rule         

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times         

Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another          Is the Shaft Tunnel watertight          Is it fitted with a watertight door          worked from         

**MAIN BOILERS, &c.**—(Letter for record S) Total Heating Surface of Boilers 1356 sq ft

Is Forced Draft fitted          No. and Description of Boilers One single ended Working Pressure 200 lb.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? No

IS A DONKEY BOILER FITTED?          If so, is a report now forwarded?         

Is the donkey boiler intended to be used for domestic purposes only         

PLANS. Are approved plans forwarded herewith for Shafting 29-11-40 Main Boilers          Auxiliary Boilers          Donkey Boilers           
 (If not state date of approval)

Superheaters          General Pumping Arrangements          Oil fuel Burning Piping Arrangements         

### SPARE GEAR.

Has the spare gear required by the Rules been supplied         

State the principal additional spare gear supplied Yes as per attached list

The foregoing is a correct description.  
For MCKIE & BAXTER, LIMITED

*[Signature]*  
DIRECTOR

Manufacturer.



© 2021

Lloyd's Register Foundation

010953-010960-0048

*[Handwritten initials]*  
3/10/41

1940 Oct: 25 - 1941 Jan: 7, 10, 27 Feb: 7, 12, 26 Mar: 3, 10, 19 Apr: 4, 24 May 1, 21, 30  
 During progress of work in shops - - June: 5, 26 July: 3, 7, 8, 16, 17, 25, 28, 31 Aug: 13, 14, 19 Sep: 2, 3, 10, 20, 29, 30 Oct: 3, 6  
 Dates of Survey while building { During erection on board vessel - - - }  
 Total No. of visits 37

Dates of Examination of principal parts—Cylinders 26-4-41 Slides 13-8-41 Covers 26-4-41  
 Pistons 17-4-41 Piston Rods 3-4-41 Connecting rods 5-4-41  
 Crank shaft 28-4-41 Thrust shaft 5-6-41 Intermediate shafts 5-6-41  
 Tube shaft ✓ Screw shaft 5-6-41 Propellers 29-4-41 & 5-6-41  
 Stern tube 5-6-41 Engine and boiler seatings Engines holding down bolts  
 Completion of fitting sea connections  
 Completion of pumping arrangements Boilers fixed Engines tried under steam  
 Main boiler safety valves adjusted Thickness of adjusting washers  
 Crank shaft material Steel Identification Mark 9924 T.P.G. Thrust shaft material Steel Identification Mark 6562 G.A.L.  
 Intermediate shafts, material Steel Identification Marks 6564 G.A.L. Tube shaft, material ✓ Identification Mark ✓  
 Screw shaft, material Steel Identification Mark 5566 G.A.L. Steam Pipes, material Test pressure Date of Test  
 Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150°F.  
 Have the requirements of the Rules for the use of oil as fuel been complied with  
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo If so, have the requirements of the Rules been complied with  
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with  
 Is this machinery duplicate of a previous case Yes If so, state name of vessel { R Dundee Yard No 369 } 64226

General Remarks (State quality of workmanship, opinions as to class, &c. This engine has been built under Special Survey in accordance with the Society Rules and approved plans, also in accordance with Specification. The materials & workmanship are good. The engine has been despatched to Thorne for installation in Messrs R. Dundee Yard No 360.

Qrb  
 25/10/41

The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ 2 : : When applied for,  
 Special  $\frac{2}{3}$  of £24-5-0 ... £ 8 : 10 : 28.00T 1941  
 Donkey Boiler Fee  $\frac{2}{3}$  of £10-0-0 ... £ 2 : 2/6 : : When received,  
 Travelling Expenses (if any) £ : : 19

Gunderson & M.R. Gibbons  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 28 OCT 1941

Assigned Defered

TUE 9 DEC 1941



© 2021 Lloyd's Register Foundation